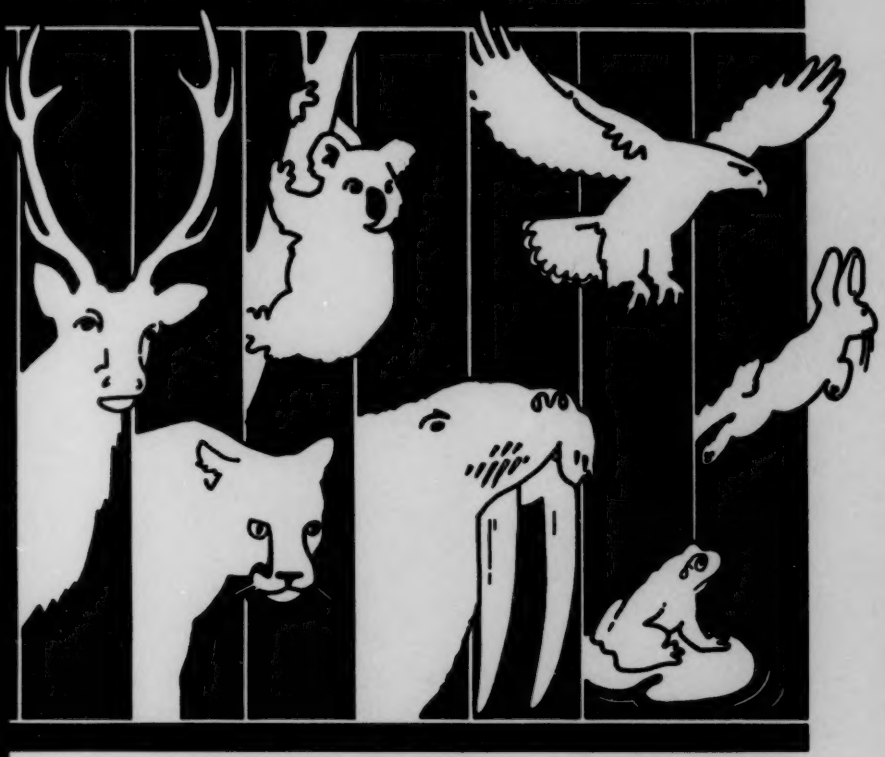
WILDLIFE *Review*



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WILDLIFE REVIEW

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[C.N.R.S., U.R.A. n° 1183, Lab. Ecol. Gen., Mus. Natl. Hist. Nat., 4 Ave. Petit-Chateau, F-91800 Brunoy, France] *Didelphis albiventris* and data for 9 other species.

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[U.S. Fish & Wildl. Serv., Natl. Fish. Contam. Res. Cent., 4200 New Haven Rd., Columbia, MO 65201] *Nycticorax nycticorax, Phalacrocorax auritus, Hydroprogne caspia, Larus delawarensis,* and *Sterna hirundo.*

BIRDS—PARASITES AND DISEASES

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[Inst. Ecol. & Sist., Acad. Cienc. Cuba, Apdo. 2291, C.P. 10200, Havana 2, Cuba] *Geotrygon caniceps* and *G. montana*.

91-008121 Rodriguez, Daysi and Barbara Sanchez. [DISTRIBUTION AND RELATIONS OF COLUMBIFORMES ORDER IN THE AMERICAN MEDITERRANEAN.] *Cienc. Biol. Acad. Cienc. Cuba* No. 21&22. p. 89-97. 1989. In Spanish with English summ. WR 225

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[Serv. Canadien Faune, C.P. 10100, Ste-Foy, PQ, Canada G1V 4H5] Data for 16 species in Canada.

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91-008130 Garcia, Maria Elena; Alejandro Torres; Rafael M. Abreu and Jorge de la Cruz. [DATA ON THE NESTING OF *PELECANUS OCCIDENTALIS, PHALACROCORAX AURITUS,* AND *NYCTICORAX NYCTICORAX* (AVES: PELECANIDAE, PHALACROCORACIDAE, ARDEIDAE) IN THE SEVILLA CAYS, CUBA.] *Cienc. Biol. Acad. Cienc. Cuba* No. 21&22. p. 178-181. 1989. In Spanish. WR 225

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91-008131 Halse, S. A. and R. P. Jaensch. BREEDING SEASONS OF WATERBIRDS IN SOUTH-WESTERN AUSTRALIA - THE IMPORTANCE OF RAINFALL. *Emu* 89(4):232-249. 1989. WR 225

[Wildl. Res. Cent., Dep. Conserv. & Land Manage., P.O. Box 51, Wanneroo, W.A. 6065, Australia] Data for 49 species.

91-008132 Heck, Berlin. ROOKERIES IN McCURTAIN COUNTY. *Scissortail* 41(2):15. 1991. WR 225

Ardea herodias, Ardeola ibis, Hydranassa caerulea, and *Anhinga anhinga* in Oklahoma and Arkansas.

91-008133 Heg, D. [ADULT GREAT BLACK-BACKED GULL *LARUS MARINUS* SEIZES JUVENILE AVOCET *RECURVIROSTRA AVOSETTA.*] *Limosa* 64(1):26-27. 1991. In Dutch with English summ. WR 225

[Donderslaan 21, 9728 KN Groningen, Netherlands] *Tringa totanus* and *Anas penelope* in the Netherlands.

91-008134 Hobson, Keith A. STABLE ISOTOPIC DETERMINATION OF THE TROPHIC RELATIONSHIPS OF SEABIRDS: PRELIMINARY INVESTIGATIONS OF ALCIDS FROM COASTAL BRITISH COLUMBIA. *Can. Wildl. Serv. Occas. Pap.* No. 68. p. 16-20. 1991. In English with French summ. WR 225

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91-008135 McKitrick, Mary C. FORELIMB MYOLOGY OF LOONS (GAVIIFORMES), WITH COMMENTS ON THE RELATIONSHIP OF LOONS AND TUBENOSES (PROCELLARIIFORMES). *Zool. J. Linn. Soc.* 102(2):115-152. 1991. WR 225

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[303 Robinson St., Rockingham, NC 28379] *Branta bernicla hrota* and *Fulica americana*.

91-008137 McNair, Douglas B. INLAND RECORDS OF BRANT IN THE CAROLINAS AND OBSERVATIONS OF KLEPTOPARASITIC BEHAVIOR. *Chat* 55(3):55-57. 1991. WR 225

[303 Robinson St., Rockingham, NC 28379] *Aythya collaris, Fulica americana*, and *Branta bernicla hrota*.

91-008138 Meile, Peter. [THE EFFECTS OF HUNTING ON WATERFOWL WINTERING ON THE BASIN OF ERMATINGEN.] *Ornithol. Beob.* 88(1):27-55. 1991. In German with English summ. WR 225

Aythya fuligula, A. ferina, Fulica atra, Anas platyrhynchos, and *A. crecca* in Germany and Switzerland.

91-008139 Montevecchi, W. A. and A. J. Gaston, editors. STUDIES OF HIGH-LATITUDE SEABIRDS. 1. BEHAVIOURAL, ENERGETIC, AND OCEANOGRAPHIC ASPECTS OF SEABIRD FEEDING ECOLOGY. *Can. Wildl. Serv. Occas. Pap.* No. 68. 56p. 1991. In English with French summ. WR 225

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91-008140 Piatt, John F.; John L. Wells; Andrea MacCharles and Brian S. Fadely. THE DISTRIBUTION OF SEABIRDS AND FISH IN RELATION TO OCEAN CURRENTS IN THE SOUTHEASTERN CHUKCHI SEA. *Can. Wildl. Serv. Occas. Pap.* No. 68. p. 21-31. 1991. In English with French summ. WR 225

[U.S. Fish & Wildl. Serv., Fish & Wildl. Res. Cent., Anchorage, AK 99503] *Uria, Rissa tridactyla, Aethia pusilla, Cyclorrhynchous psittacula, Puffinus tenuirostris*, and *Fratercula cirrhata*.

91-008141 Richardson, Colin. QARNEYN ISLAND, UNITED ARAB EMIRATES. *Phoenix* No. 7. p. 7-8. 1990. WR 225

[P.O. Box 2825, Dubai, United Arab Emirates] *Phaethon aethereus, Phalacrocorax nigrogularis, Sterna bergii, S. bengalensis, S. anaethetus*, and *S. repressa*.

91-008142 Ryan, P. G.; W. R. J. Dean; C. L. Moloney; B. P. Watkins and S. J. Milton. NEW INFORMATION ON SEABIRDS AT INACCESSIBLE ISLAND AND OTHER ISLANDS IN THE TRISTAN DA CUNHA GROUP. *Mar. Ornithol.* 18(1-2):43-54. 1990. WR 225

[Percy FitzPatrick Inst. African Ornithol., Univ. Cape Town, Rondebosch 7700, South Africa] *Eudyptes chrysocome, Pterodroma mollis, Puffinus assimilis, Pelagodroma marina, Diomedea exulans, Puffinus griseus, Puffinus diomedea*, and *Stercorarius parasiticus*.

91-008143 Schneider, David C. and Chris D. Bajdik. SPATIAL COVARIANCE IN COUNTS OF BIRDS AT SEA OFF EASTERN NEWFOUNDLAND. *Can. Wildl. Serv. Occas. Pap.* No. 68. p. 32-38. 1991. In English with French summ. WR 225

[Ocean Sci. Cent., Memorial Univ. Newfoundland, St. John's, NF, Canada A1A 3X7]

91-008144 Shillcock, N. H. [GREAT BLACK-BACKED GULL *LARUS MARINUS* ATTACKS GOOSANDER *MERGUS MERGANSER*.] *Limosa* 64(1):26. 1991. In Dutch with English summ. WR 225

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91-008147 van Halewyn, Ruud. HISTORY OF THE SEABIRD POPULATION OF SAN NICOLAS BAY KEYS, ARUBA. *Uitg. Natuurwet. Studiekring Suriname Ned. Antillen* No. 123. p. 33-59. 1988. WR 225

[Inst. Taxonomic Zool., P.O. Box 20 125, 1000 HC Amsterdam, Netherlands]

91-008148 Woehler, E. J. TWO RECORDS OF SEABIRD ENTANGLEMENT AT CASEY, ANTARCTICA. *Mar. Ornithol.* 18(1-2):72-73. 1990. WR 225

[Australian Antarctic Div., Dep. Arts, Sport, Environ., Tourism & Territories, Channel Hwy., Kingston, Tasm. 7050, Australia] *Catharacta maccormicki* and *Pygoscelis adeliae*.

WATERFOWL—GENERAL

91-008149 Briggs, S. V. SEXUAL AND ANNUAL DIFFERENCES IN ACTIVITY BUDGETS OF MANED DUCK *CHENONETTA JUBATA*. *Emu* 90(3):190-194. 1990. WR 225
[Natl. Parks & Wildl. Serv. (N.S.W.) & Dep. Zool., Australian Natl. Univ., c/-CSIRO Wildl. & Ecol., P.O. Box 84, Lyneham, A.C.T. 2602, Australia]

91-008150 Kantrud, Harold A. EFFECTS OF VEGETATION MANIPULATION ON BREEDING WATERFOWL IN PRAIRIE WETLANDS - A LITERATURE REVIEW. *U.S. For. Serv. Gen. Tech. Rep. RM* No. 194. p. 93-110. 1990. WR 225
[U.S. Fish & Wildl. Serv., North. Prairie Wildl. Res. Cent., P.O. Box 2096, Jamestown, ND 58401] Data for 7 species.

DUCKS

91-008151 Acosta Cruz, Martin; Lourdes Mugica Valdes and Orlando Torres Fundora. [REPRODUCTIVE CYCLE OF *DENDROCYGNA BICOLOR* (VIEILLOT) (AVES: ANATIDAE) IN CUBA.] *Cienc. Biol. Acad. Cienc. Cuba* No. 21&22. p. 104-114. 1989. In Spanish with English summ. WR 225
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Dendrocygna bicolor.

91-008154 Allen, George III. THE SILVER TEAL. *Game Bird Breeders Avicult. Zool. Conserv. Gazette* 40(4):8. 1991. WR 225
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91-008155 Andren, Henrik. PREDATION: AN OVERRATED FACTOR FOR OVER-DISPERSION OF BIRDS' NESTS? *Anim. Behav.* 41(6):1063-1069. 1991. WR 225
[Grimso Wildl. Res. Stn., S-730 91 Riddarhyttan, Sweden] *Anas platyrhynchos* in Sweden.

91-008156 Backstrom, Parker and Kim Risen. ELEVENTH RECORDED KING EIDER FOR MINNESOTA. *Loon* 63(1):66-67. 1991. WR 225
[3409 Emerson Ave. S., #4, Minneapolis, MN 55408] *Somateria spectabilis*.

91-008157 Battley, P. F. NORTHERN SHOVELERS NEAR WANGANUI. *Notornis* 38(1):48-50. 1991. WR 225
[108 Peakes Rd., Wanganui, New Zealand] *Anas clypeata* in New Zealand.

91-008158 Bergan, James French. SURVIVAL, HABITAT USE, AND MOVEMENTS OF FEMALE MALLARDS WINTERING IN THE PLAYA LAKES REGION. *Ph.D. dissertation, Tex. Tech Univ.* 111p. 1990. From Diss. Abstr. Int. B Sci. Eng. 51(9):4127. 1991. Order No. DA9104757. WR 225
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91-008159 DeCandido, Robert. FULVOUS WHISTLING-DUCK FOUND DEAD IN BRONX COUNTY. *Kingbird* 41(1):17. 1991. WR 225
[Fordham Univ., Dep. Biol., Bronx, NY 10458] *Dendrocygna bicolor* in New York.

91-008160 Dempsey, Joanne. BARROW'S GOLDENEYE IN DAKOTA COUNTY. *Loon* 63(1):72-73. 1991. WR 225
[1017 W. 14th St., Hastings, MN 55033] *Bucephala islandica* in Minnesota.

91-008161 Donnelly, W. A. and F. G. Whoriskey, Jr. BACKGROUND-COLOR ACCLIMATION OF BROOK TROUT FOR CRYPSIS REDUCES RISK OF PREDATION BY HOODED MERGANSERS *LOPHODYTES CUCULLATUS*. *N. Am. J. Fish. Manage.* 11(2):206-211. 1991. WR 225
[Dep. Renewable Resour., Macdonald Coll., 21,111 Lakeshore Rd., Ste. Anne de Bellevue, PQ, Canada H9X 1C0]

91-008162 Floyd, Ted. KING EIDER, *SOMATERIA SPECTABILIS*, ERIE COUNTY. *Pa. Birds* 5(1):20. 1991. WR 225
[Pesticide Res. Lab., Pa. State Univ., University Park 16802]

91-008163 Ganguli-Lachungpa, Usha. BRAHMINY DUCK *TADORNA FERRUGINEA* (PALLAS) BREEDING IN SIKKIM. *J. Bombay Nat. Hist. Soc.* 87(2):290. 1990. WR 225

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91-008164 Gottlieb, Gilbert. SOCIAL INDUCTION OF MALLEABILITY IN DUCKLINGS. *Anim. Behav.* 41(6):953-962. 1991. WR 225
[Psychol. Dep., Univ. N.C., Greensboro 27412] *Anas platyrhynchos.*

91-008165 Goudie, R. Ian and C. Davison Ankney. PATTERNS OF HABITAT USE BY SEA DUCKS WINTERING IN SOUTHEASTERN NEWFOUNDLAND. *Ornis Scand.* 19(4):249-256. 1988. WR 225
[Canadian Wildl. Serv., P.O. Box 9158, St. John's, NF, Canada A1A 2X9] *Somateria mollissima, Clangula hyemalis, Melanitta nigra,* and *Histrionicus histrionicus.*

91-008166 Hays, Tracy. MORE ON RAISING RUDDY DUCKS. *Game Bird Breeders Avicult. Zool. Conserv. Gazette* 39(3):13-15. 1991. WR 225
[Rt. 1, Box 48A, Commerce City, CO 80022] *Oxyura jamaicensis.*

91-008167 Hendrickson, Michael. EARLIEST FALL DATE FOR BLACK SCOTER. *Loon* 63(1):66. 1991. WR 225
[P.O. Box 2282, Tofte, MN 55615] *Melanitta nigra* in Minnesota.

91-008168 Hirschi, Werner. [TUFTED DUCK CATCHING CRAYFISH.] *Ornithol. Beob.* 88(1):73. 1991. In German. WR225
[Grund, 3556 Trub, Switzerland] *Aythya fuligula.*

91-008169 Jackson, Greg D. FIELD IDENTIFICATION OF TEAL IN NORTH AMERICA: FEMALE-LIKE PLUMAGES. PART I: BLUE-WINGED, CINNAMON, AND GREEN-WINGED TEAL. *Birding* 23(3):124-133. 1991. WR 225
[2220 Baneberry Dr., Birmingham, AL 35244] *Anas crecca, A. discors,* and *A. cyanoptera.*

91-008170 Johnson, Jim and Nick Lethaby. GARGANEY: THE FIRST OREGON RECORD. *Oreg. Birds* 17(2):38. 1991. WR 225
[3244 N.E. Brazee St., Portland, OR 97212] *Anas querquedula.*

91-008171 Kaufman, Paul. GREATER SCAUP IN LANCASTER COUNTY. *Nebr. Bird Rev.* 59(2):38. 1991. WR 225
[1101 N. 78th, Lincoln, NE 68505] *Aythya marila* in Nebraska.

91-008172 Kingsford, R. T. FOOD OF THE MANED DUCK *CHENONETTA JUBATA* DURING THE BREEDING SEASON. *Emu* 89(2):119-124. 1989. WR 225
[Natl. Parks & Wildl. Serv., P.O. Box 1967, Hurstville, N.S.W. 2220, Australia]

91-008173 Lansley, Peter S. and Chris Chandler. THE FIRST SIGHT RECORD OF THE GARGANEY *ANAS QUERQUEDULA* IN VICTORIA. *Aust. Bird Watcher* 14(1):10-12. 1991. WR 225
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[Minist. Nat. Resour., P.O. Box 190, Moosonee, ON, Canada P0L 1Y0] *Anas platyrhynchos* in Canada.

91-008175 Maxson, Stephen J. and Richard M. Pace III. DIURNAL ACTIVITY BUDGETS AND HABITAT USE OF RING-NECKED DUCK DUCKLINGS IN NORTHCENTRAL MINNESOTA. *Minn. Dep. Nat. Resour. Wildl. Rep.* p. 68. 1990. WR 225
Aythya collaris.

91-008176 McWilliams, Jerry. NINTH RECORD OF HARLEQUIN DUCK, *HISTRIONICUS HISTRIONICUS,* FOR ERIE COUNTY. *Pa. Birds* 5(1):20-21. 1991. WR 225
[3142 W. 12th St., Erie, PA 16505]

91-008177 Morton, S. R.; K. G. Brennan and M. D. Armstrong. DISTRIBUTION AND ABUNDANCE OF DUCKS IN THE ALLIGATOR RIVERS REGION, NORTHERN TERRITORY. *Aust. Wildl. Res.* 17(6):573-590. 1990. WR 225
[Div. Wildl. & Ecol., CSIRO, P.O. Box 2111, Alice Springs, N.T. 0871, Australia] *Dendrocygna arcuata, D. eytoni, Tadorna radjah, Anas superciliosa, A. gibberifrons, Aythya australis,* and *Malacorhynchus membranaceus* in Australia.

91-008178 Nystrom, K. G. Kenneth; Olof Pehrsson and Dag Broman. FOOD OF JUVENILE COMMON EIDERS (*SOMATERIA MOLLISSIMA*) IN AREAS OF HIGH AND LOW SALINITY. *Auk* 108(2):250-256. 1991. WR 225
[Pehrsson: Univ. Gothenburg, Dep. Zool., Box 25059, S-400 31 Gothenburg, Sweden]

91-008179 Paton, J. B. MOVEMENT OF A MALLARD FROM NEW ZEALAND TO SOUTH AUSTRALIA. *S. Aust. Ornithol.* 31(3):73. 1991. WR 225
[1 Dashwood Rd., Beaumont, S.A. 5066, Australia] *Anas platyrhynchos.*

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91-008180 Rave, David P. and Carroll L. Cordes. DIURNAL TIME-ACTIVITY BUDGET OF NORTHERN PINTAILS USING NON-HUNTED RICE FIELD HABITATS IN SOUTHWEST LOUISIANA. *Minn. Dep. Nat. Resour. Wildl. Rep.* p. 69-72. 1990. WR 225
[Cordes: U.S. Fish & Wildl. Serv., Natl. Wetlands Res. Cent., NASA-Slidell Computer Complex, 1010 Gause Blvd., Slidell, LA 70458] *Anas acuta.*

91-008181 Rotella, Jay Joseph. HABITAT USE, MOVEMENTS AND SURVIVAL OF MALLARD BROODS IN SOUTHWESTERN MANITOBA. *Ph.D. dissertation, Univ. Idaho* 75p. 1990. From Diss. Abstr. Int. B Sci. Eng. 51(10):4644. 1991. Order No. DA9107060. WR 225
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91-008183 Spakulova, Marta; Viera Birova and Jozef K. Macko. SEASONAL CHANGES IN THE SPECIES COMPOSITION OF NEMATODES AND ACANTHOCEPHALANS OF DUCKS IN EAST SLOVAKIA. *Biologia (Bratisl.)* 46(2):119-128. 1991. In English with Czech and Russian summ. WR 225
[Helminthol. Inst. SAS, 040 01 Kosice, Czechoslovakia] *Anas platyrhynchos.*

91-008184 Torne, Michael W. DIURNAL ACTIVITY BUDGET OF FEMALE RUDDY DUCKS BREEDING IN MANITOBA. *Wilson Bull.* 103(2):183-189. 1991. WR 225
[U.S. Fish & Wildl. Serv., Patuxent Wildl. Res. Cent., Laurel, MD 20708] *Oxyura jamaicensis.*

91-008185 Turpin, Margaret C. and John Dell. MUSK DUCK FEEDING ON VERTEBRATES. *West. Aust. Nat.* 18(6):168. 1991. WR 225
[W.A. Mus., Francis St., Perth, W.A. 6000, Australia] *Biziura lobata* in Australia.

91-008186 Urquhart, Colin. NO REDFACED BIRDERS OVER WHITEFACED DUCK. *Bee-eater* 42(1):16. 1991. WR 225
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91-008187 Uthaman, P. K. SPOTBILL DUCK *ANAS POECILORHYNCHA* J.R. FORSTER IN KERALA. *J. Bombay Nat. Hist. Soc.* 87(2):290-291. 1990. WR 225

91-008188 Zicus, Michael and Dave Rave. IMPROVED MALLARD RECRUITMENT FROM MANAGED LANDS (RIM PROJECT - 1990 PROGRESS REPORT). *Minn. Dep. Nat. Resour. Wildl. Rep.* p. 54-67. 1990. WR 225
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91-008189 Zicus, Michael C. and Steven K. Hennes. COMMON GOLDENEYE INCUBATION RHYTHMS. *Minn. Dep. Nat. Resour. Wildl. Rep.* p. 73-76. 1990. WR 225
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SWANS AND GEESE

91-008190 Barnard, Steve. MODELLING THE CANADA GOOSE POPULATIONS AT GREAT LINFORD. *Game Conservancy Annu. Rep.* No. 22. p. 141. 1990. WR 225
Branta canadensis in England.

91-008191 Bedard, Jean and Gisele Lapointe. RESPONSES OF HAYFIELD VEGETATION TO SPRING GRAZING BY GREATER SNOW GEESE. *J. Appl. Ecol.* 28(1):187-193. 1991. WR 225
[Dep. Biol., Fac. Sci. Gen., Univ. Laval, Ste.-Foy, PQ, Canada G1K 7P4] *Anser caerulescens atlantica* in Canada.

91-008192 Booth, David T. and Paul R. Sotherland. OXYGEN CONSUMPTION, AIR-CELL GAS TENSIONS, AND INCUBATION PARAMETERS OF MUTE SWAN EGGS. *Physiol. Zool.* 64(2):473-484. 1991. WR 225
[Dep. Organismal Biol. & Anat., Univ. Chicago, Chicago, IL 60637] *Cygnus olor.*

91-008193 Calvert, Malcolm. CANADA GOOSE DIVING TO ESCAPE ATTACKS BY MUTE SWAN. *Br. Birds* 84(6):220. 1991. WR 225
[12 Hill Dr., Handforth, Wilmslow, Cheshire SK9 3AR, England] *Cygnus olor* and *Branta canadensis* in England.

91-008194 Campbell, Bruce H. LONGEVITY RECORDS FOR THE DUSKY CANADA GOOSE (*BRANTA CANADENSIS OCCIDENTALIS*). *Northwest Nat.* 72(1):34. 1991. WR 225
[Dep. Fish & Game, 333 Raspberry Rd., Anchorage, AK 99518]

91-008195 Capainolo, Peter. TREE NESTING CANADA GOOSE AT CAUMSETT STATE PARK. *Kingbird* 41(1):19-20. 1991. WR 225
[Queens Coll. Cent. Mus., Queens Coll., Cent. Environ. Teaching & Res., Caumsett State Park, Huntington, NY 11743] *Branta canadensis* in New York.

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91-008196 Cooch, E. G.; D. B. Lank; R. F. Rockwell and F. Cooke. LONG-TERM DECLINE IN BODY SIZE IN A SNOW GOOSE POPULATION: EVIDENCE OF ENVIRONMENTAL DEGRADATION? *J. Anim. Ecol.* 60(2):483-496. 1991. WR 225
[Dep. Biol., Univ. Pa., Philadelphia 19104] *Anser caerulescens caerulescens* in Canada.

91-008197 Cummings, John L.; J. Russell Mason; David L. Otis and Jon F. Heisterberg. EVALUATION OF DIMETHYL AND METHYL ANTHRANILATE AS A CANADA GOOSE REPELLENT ON GRASS. *Wildl. Soc. Bull.* 19(2):184-190. 1991. WR 225
[U.S. Dep. Agric., Denver Wildl. Res. Cent., Bldg. 16, Denver Fed. Cent., P.O. Box 25226, Denver, CO 80225] *Branta canadensis* in New Jersey.

91-008198 Flumm, D. S. BRENT GEESE WITH WHITE NECK BANDS. *Br. Birds* 84(6):220-221. 1991. WR 225
[52 Porthia Rd., St. Ives, Cornwall TR26 2JB, England] *Branta bernicla* in England.

91-008199 Ganzenwerkgroep Nederland/Belgie. [GEESE COUNTS IN THE NETHERLANDS AND BELGIUM IN 1988/1989.] *Limosa* 64(1):7-15. 1991. In Dutch with English summ. WR 225
[Rijkinst. Nat., Postbus 9201, 6800 HB Arnhem, Netherlands] *Anser erythropus, A. caerulescens, A. fabalis, A. anser, Branta ruficollis, B. leucopsis, B. bernicla,* and *B. canadensis.*

91-008200 Garner, Tom. SECOND STATE RECORD OF ROSS' GOOSE, *CHEN ROSSII,* LANCASTER COUNTY. *Pa. Birds* 5(1):19-20. 1991. WR 225 [509 Amesbury Rd., Lancaster, PA 17601]

91-008201 Gauthier, Gilles and Jean Bedard. THE ROLE OF PHENOLIC COMPOUNDS AND NUTRIENTS IN DETERMINING FOOD PREFERENCE IN GREATER SNOW GEESE. *Oecologia (Heidelb.)* 84(4):553-558. 1990. WR 225
[Dep. Biol., Univ. Laval, Ste-Foy, PQ, Canada G1K 7P4] *Anser caerulescens atlantica* in Canada.

91-008202 Haas, Franklin C. FIRST PENNSYLVANIA RECORD OF ROSS' GOOSE, *CHEN ROSSII,* LANCASTER COUNTY. *Pa. Birds* 5(1):19. 1991. WR 225
[2469 Hammertown Rd., Narvon, PA 17555]

91-008203 Hodges, Cathleen S. Natividad. SURVEY OF NENE (*NESOCHEN SANDVICENSIS*) AT HALEAKALA NATIONAL PARK 1988 THROUGH 1990. *Elepaio* 51(6):38-39. 1991. WR 225
[Haleakala Natl. Park, Resour. Manage. Div., P.O. Box 369, Makawao, HI 96768]

91-008204 Lawrence, Jeffrey S.; Thomas C. Tacha; Dennis D. Thornburg; Robert A. Williamson and Willard D. Klimstra. SURVIVAL RATES AND HARVEST DISTRIBUTION OF GIANT CANADA GEESE FROM WEST-CENTRAL ILLINOIS. *Minn. Dep. Nat. Resour. Wildl. Rep.* p. 81-82. 1990. WR 225
[Tacha: Caesar Kleberg Wildl. Res. Inst., Tex. A&I Univ., Kingsville] *Branta canadensis maxima.*

91-008205 Lawrence, Jeffrey S.; G. Alan Perkins; Dennis D. Thornburg; Robert A. Williamson and Willard D. Klimstra. MOLT MIGRATION OF GIANT CANADA GEESE FROM WEST-CENTRAL ILLINOIS. *Minn. Dep. Nat. Resour. Wildl. Rep.* p. 83-84. 1990. WR 225
[Perkins: Coop. Wildl. Res. Lab., South. Ill. Univ., Carbondale] *Branta canadensis maxima.*

91-008206 Lawrence, Jeffrey S.; Michael R. Riggs and Willard D. Klimstra. GOSLING SURVIVAL OF GIANT CANADA GEESE FROM WEST-CENTRAL ILLINOIS. *Minn. Dep. Nat. Resour. Wildl. Rep.* p. 85-86. 1990. WR 225
[Klimstra: Coop. Wildl. Res. Lab., South. Ill. Univ., Carbondale] *Branta canadensis maxima.*

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[Dep. Biol., Queen's Univ., Kingston, ON, Canada K7L 3N6] *Aethia pusilla* in the Bering Sea.

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91-008324 Leon, Olga D. and Sergio H. Diaz Neto. [A RECORD OF THE BLACK TERN *CHLIDONIAS NIGER SURINAMENSIS* (GMELIN, 1789) (AVES, STERNIDAE) FROM THE DEPARTMENT SAN FERNANDO, CHACO, ARGENTINA.] *Not. Faun.* No. 12. 2p. 1988. In Spanish with English summ. WR 225
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[173 Allingham St., Armidale, N.S.W. 2350, Australia] *Ardea pacifica* and *Egretta alba* in Australia.

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[Ibis Breeding Cent., Beijing Zool. Gard., 137 Xi Zhi Men Wai St., Beijing, China]

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91-008329 Lloyd, R. I. and H. J. Lloyd. AN ORIENTAL PRATINCOLE AT THE DRY CREEK SALTFIELDS. *S. Aust. Ornithol.* 31(3):74. 1991. WR 225
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91-008331 MacIvor, Laurie Hunt. POPULATION DYNAMICS, BREEDING ECOLOGY, AND MANAGEMENT OF PIPING PLOVERS ON OUTER CAPE COD, MASSACHUSETTS. *M.S. thesis, Univ. Mass.* 100p. 1990. WR 225
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91-008336 McWilliams, Jerry. FIRST WINTER RECORDS OF FORSTER'S TERN, *STERNA FORSTERI*, IN PENNSYLVANIA, ERIE COUNTY. *Pa. Birds* 5(1):24. 1991. WR 225
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91-008337 Melvin, Scott M.; Curtice R. Griffin and Laurie H. MacIvor. RECOVERY STRATEGIES FOR PIPING PLOVERS IN MANAGED COASTAL LANDSCAPES. *Coastal Manage.* 19(1):21-34. 1991. WR 225
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91-008339 Miller, E. H.; W. W. H. Gunn and B. N. Veprintsev. BREEDING VOCALIZATIONS OF BAIRD'S SANDPIPER *CALIDRIS BAIRDII* AND RELATED SPECIES, WITH REMARKS ON PHYLOGENY AND ADAPTATION. *Ornis Scand.* 19(4):257-267. 1988. WR 225
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91-008340 Miller, Pat and Karen Miller. BITTERNS USING MANGROVES. *Notornis* 38(1):79. 1991. WR 225
[114B Raumanga Valley Rd., Whangarei, New Zealand] *Botaurus poiciloptilus* in New Zealand.

91-008341 Miskelly, C. M. AERIAL DISPLAYING AND FLYING ABILITY OF CHATHAM ISLAND SNIPE *COENOCORYPHA PUSILLA* AND NEW ZEALAND SNIPE *C. AUCKLANDICA*. *Emu* 90(1):28-32. 1990. WR 225
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91-008343 Mundkur, Taej. INDIAN RIVER TERN *STERNA AURANTIA*, A COASTAL SPECIES OR A CASE OF MISTAKEN IDENTITY? *J. Bombay Nat. Hist. Soc.*87(2):298. 1990. WR 225

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[Dep. Biol., Fish. & Wildl., & Inst. Arctic Biol., Univ. Alaska, Fairbanks 99775-0180]

91-008345 Neelakantan, K. K. ON THE VOICE OF THE KORA OR WATERCOCK *GALLICREX CINEREA*. *J. Bombay Nat. Hist. Soc.* 87(2):293. 1990. WR 225

91-008346 Newman, Ken and Gordon Holtshausen. IDENTIFYING WHITE EGRETS. *Birding South. Afr.* 42(4):111-113. 1990. WR 225

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91-008347 Panov, Ye. N.; V. I. Grabovsky and L. Yu. Zykova. [NESTING BIOLOGY, BEHAVIOR AND TAXONOMY OF *LARUS CACHINNANS* 2. SIGNALLING BEHAVIOR AND COMMUNICATION DURING NESTING.] *Zool. Zh.* 70(1):76-90. 1991. In Russian with English summ. WR 225

[Inst. Anim. Evol. Morphol. & Ecol., USSR Acad. Sci., Moscow, USSR]

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[Coop. Fish & Wildl. Res. Unit, Dep. Fish. & Wildl., Utah State Univ., Logan 84322-5210] *Charadrius alexandrinus.*

91-008350 Pfennig, Heinz Gerhard. [FLIGHT COURSE, BEHAVIOR AND REST LOCATIONS OF WINTERING GULLS (LARIDAE) IN WESTERN SAUERLAND.] *Charadrius* 27(1):19-26. 1991. In German with English summ. WR 225

[Worthstr. 26a, 5880 Ludenscheid, Germany] *Larus argentatus, L. ridibundus,* and *L. canus.*

91-008351 Piatt, John F. THE AGGREGATIVE RESPONSE OF COMMON MURRES AND ATLANTIC PUFFINS TO SCHOOLS OF CAPELIN. *Stud. Avian Biol.* No. 14. p. 36-51. 1990. WR 225

[Fish & Wildl. Res. Cent., U.S. Fish & Wildl. Serv., 1011 E. Tudor Rd., Anchorage, AK 99503] *Uria aalge* and *Fratercula arctica* in Canada.

91-008352 Pilcher, C. W. KUBBAR ISLAND, KUWAIT. *Phoenix* No. 6. p. 8. 1989. WR 225

[P.O. Box 24923, Kuwait] *Sterna anaethetus, S. repressa, S. bengalensis,* and *S. bergii.*

91-008353 Pooley, Hilary. BLACK EGRET ON WEST COAST. *Promerops* No. 197. p. 10. 1991. WR 225

Hydranassa ardesiaca in South Africa.

91-008354 Porter, J. M. PATTERNS OF RECRUITMENT TO THE BREEDING GROUP IN THE KITTIWAKE *RISSA TRIDACTYLA*. *Anim. Behav.* 40(2):350-360. 1990. WR 225

[Dep. Fish. & Oceans, Biol. Stn., St. Andrews, NB, Canada E0G 2X0]

91-008355 Pugnali, German; Daniel Blanco and Hernan Rodriguez Goni. [A RECORD OF THE TEREK SANDPIPER, *XENOPS CINEREUS* (AVES, SCOLOPACIDAE) FROM THE ATLANTIC SHORE OF THE PROVINCE OF BUENOS AIRES, ARGENTINA.] *Not. Faun.* No. 13. 2p. 1988. In Spanish with English summ. WR 225

[Asoc. Ornitol. Plata, 25 Mayo 749, Piso 2, 1002 Buenos Aires, Argentina]

91-008356 Quinn, James S. BLACK SKIMMER PARENTAL DEFENCE AGAINST CHICK PREDATION BY GULLS. *Anim. Behav.* 38(3):534-541. 1989. WR 225

[Dep. Biol., Queen's Univ., Kingston, ON, Canada K7L 3N6] *Larus atricilla* and *Rynchops niger* in Texas.

91-008357 Rabunal Patino, Jose L. [NEW BIRDS FOR SPAIN: SEMIPALMATED PLOVER *CHARADRIUS SEMIPALMATUS.*] *Garcilla* No. 79. p. 27-28. 1990. In Spanish. WR 225

91-008358 Rahmani, Asad R.; K. K. Mohapatra and Carl D'Silva. MARSH SANDPIPER *TRINGA STAGNATILIS* EATING A FROG. *J. Bombay Nat. Hist. Soc.*87(2):296-297. 1990. WR 225

Philomachus pugnax in India.

91-008359 Rahmani, Asad R. and Ranjit Manakadan. THE PAST AND PRESENT DISTRIBUTION OF THE GREAT INDIAN BUSTARD *ARDEOTIS NIGRICEPS* (VIGORS) IN INDIA. *J. Bombay Nat. Hist. Soc.* 87(2):175-194. 1990. WR 225

[Bombay Nat. Hist. Soc. Hornbill House, Shaheed Bhagat Singh Rd., Bombay 400 023, India]

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91-008360 Reed, J. Michael; Lewis W. Oring and Julie A. R. Alberico. COMMON TERNS AT MINNESOTA'S LARGEST COLONY: BREEDING SITE SHIFT, POPULATION DECLINE, AND REPRODUCTIVE SUCCESS. *Loon* 63(1):12-16. 1991. WR 225

[Program Ecol., Evol. & Conserv. Biol., & Dep. Range, Wildl. & For., 1000 Valley Rd., Univ. Nev., Reno 89512] *Sterna hirundo.*

91-008361 Russell, Robert P., Jr. LAUGHING GULL (*LARUS ATRICILLA*). *Passenger Pigeon* 53(1):96. 1991. WR 225

[6429 Bridge Rd. #106, Madison, WI 53713]

91-008362 Sampath, K. FOOD OF THE SPOTTED SANDPIPER *TRINGA GLAREOLA* LINN. *J. Bombay Nat. Hist. Soc.* 87(2):297. 1990. WR 225

91-008363 Sankaran, Ravi and Ranjit Manakadan. RECENT BREEDING RECORDS OF THE LESSER FLORICAN *SYPHEOTIDES INDICA* (MILLER) FROM ANDHRA PRADESH. *J. Bombay Nat. Hist. Soc.* 87(2):294-296. 1990. WR 225

91-008364 Schneider, David C.; Nancy M. Harrison and George L. Hunt, Jr. SEABIRD DIET AT A FRONT NEAR THE PRIBILOF ISLANDS, ALASKA. *Stud. Avian Biol.* No. 14. p. 61-66. 1990. WR 225

[Inst. Cold Ocean Sci., Memorial Univ. Newfoundland, Saint John's, NF, Canada A1B 3X7] *Uria lomvia, U. aalge, Rissa tridactyla,* and *Phalaropus fulicarius* in Alaska.

91-008365 Schneider, David C.; Raymond Pierotti and William Threlfall. ALCID PATCHINESS AND FLIGHT DIRECTION NEAR A COLONY IN EASTERN NEWFOUNDLAND. *Stud. Avian Biol.* No. 14. p. 23-35. 1990. WR 225

[Inst. Cold Ocean Sci., Memorial Univ. Newfoundland, Saint John's, NF, Canada A1B 3X7] *Uria aalge* and *Fratercula arctica.*

91-008366 Schutsky, Bob and Jerry Book. AN UNUSUAL LESSER BLACK-BACKED GULL, *LARUS FUSCUS,* LANCASTER COUNTY. *Pa. Birds* 5(1):22. 1991. WR 225

[59 Peach Ln., Ronks, PA 17572]

91-008367 Scott, J. Michael. OFFSHORE DISTRIBUTIONAL PATTERNS, FEEDING HABITS, AND ADULT-CHICK INTERACTIONS OF THE COMMON MURRE IN OREGON. *Stud. Avian Biol.* No. 14. p. 103-108. 1990. WR 225

[Coop. Fish & Wildl. Res. Unit, Coll. For., Univ. Idaho, Moscow 83843] *Uria aalge.*

91-008368 Sealy, Spencer G. AUKS AT SEA: PROSPECTS FOR FUTURE RESEARCH. *Stud. Avian Biol.* No. 14. p. 1-6. 1990. WR 225

[Dep. Zool., Univ. Manitoba, Winnipeg, MB, Canada R3T 2N2]

91-008369 Sealy, Spencer G., editor. AUKS AT SEA. PROCEEDINGS OF AN INTERNATIONAL SYMPOSIUM OF THE PACIFIC SEABIRD GROUP, PACIFIC GROVE, CALIFORNIA, 17 DECEMBER 1987. *Stud. Avian Biol.* No. 14. 180p. 1990. Available at $16.00 from Cooper Ornithol. Soc., c/o Jim Jennings, Assistant Treasurer, Cooper Ornithol. Soc., Suite 1400, 1100 Glendon Ave., Los Angeles, CA 90024. WR 225

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91-008370 Shadle, John and Ron Wagnitz. BLACK-BELLIED PLOVER IN BUFFALO COUNTY. *Nebr. Bird Rev.* 59(2):38. 1991. WR 225

[Public Power Dist., 1414 15th St., Columbus, NE 68601] *Pluvialis squatarola* in Nebraska.

91-008371 Shrubb, M. and P. C. Lack. THE NUMBERS AND DISTRIBUTION OF LAPWINGS *V. VANELLUS* NESTING IN ENGLAND AND WALES IN 1987. *Bird Study*38(1):20-37. 1991. WR 225

[Hillcrest, Llanwrtyd Wells, Powys, LD5 4TL, Wales]

91-008372 Simms, Eric. SPOTTED REDSHANK JOINING PIGEON FLOCK. *Br. Birds*84(6):222. 1991. WR 225

[21 Church St., South Witham, Grantham, Lincolnshire NG33 5PJ, England] *Columba livia* and *Tringa erythropus* in England.

91-008373 Sirois, Jacques; George Low and John Turquand McCollum. FIRST GREAT EGRET RECORD IN THE NORTHWEST TERRITORIES. *Blue Jay* 49(1):36-37. 1991. WR 225

[Canadian Wildl. Serv., Box 637, Yellowknife, NT, Canada X1A 2N5] *Egretta alba.*

91-008374 Sirois, Jacques. FIRST RECORD OF THE BLACK GUILLEMOT NEAR YELLOWKNIFE, NORTHWEST TERRITORIES. *Blue Jay* 49(1):33-35. 1991. WR 225

[Canadian Wildl. Serv., Box 637, Yellowknife, NT, Canada X1A 2N5] *Cepphus grylle.*

SHOREBIRDS, MARSHBIRDS, AND ALLIES (Continued)

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[Australian Antarctic Div., Dep. Arts, Sport, Environ., Tourism & Territories, Channel Hwy., Kingston, Tasm. 7050, Australia]

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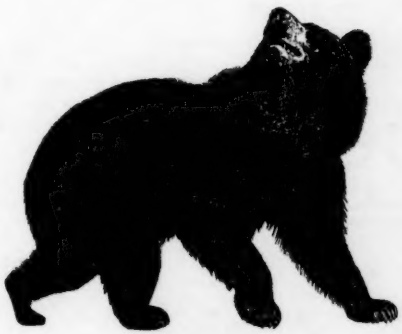

BOOK REVIEW

Riedman, Marianne. 1990. *The Pinnipeds: Seals, Sea Lions, and Walruses.* University of California Press, 2120 Berkeley Way, Berkeley, CA 94720. xxiii + 439 pp. Available from the publisher at $29.95 (cloth).

This book recognizes 33 living species of pinnipeds, not including the recently extirpated Caribbean monk seal. According to information printed on the dust jacket, the objective of the volume is to provide "authoritative, up-to-date information on these versatile animals for the interested lay reader, student, or specialist." I think the book does a superb job in meeting this objective.

The Pinnipeds is written in the format of a synthetic literature review, and consists of nine chapters covering the following conceptual areas: adaptations for a marine existence; evolution, classification, and distribution; ecology; predation on pinnipeds; diet and food resources; mating systems, breeding behavior, and social organization; reproduction and life history; maternal care and lactation strategies; and communication, cognition and learning. The textual material is balanced by 15 beautiful color photographs, over 150 figures (largely black-and-white photographs), 20 maps, and 20 tables. Some of the photographs are truly exceptional, and include both the dramatic (killer whales seizing southern sea lion pups in the Argentinean surf) and the bizarre (wild California sea lions looking outside from the door and window of an abandoned house on Año Nuevo Island). End leafs provide classification trees with original illustrations of species by Pieter Folkens. There are also lists of tables and illustrations, an appendix of common names, a glossary (of use to the non-specialist), an extensive and up-to-date bibliography, and an index. Production quality is very good for the price, and there are a pleasingly low number of editorial mistakes.

The quality of scholarship in this book is also high. The slant is decidedly in the realm of behavioral ecology and natural history, rather than such topics as conservation, management, or contaminants. However, pinniped behavioral ecology and natural history are especially fascinating and have been the subject of much rigorous study. Riedman succeeds in weaving material from her own personal experiences and those of colleagues with the published literature, which helps keep the text from becoming dry. In addition to extensive, expert coverage of certain topics such as reproduction and maternal care, the book also contains interesting anecdotes and intriguing tidbits of knowledge. For example, how can you weigh a gigantic bull elephant seal in the field without capture? Construct a life-size model of a female on a surfboard, put a platform scale ahead of it, and from close to the model play recordings of vocalizations made by the females when mounted. The bulls will cross onto the scale in their to mate with the dummy!

I did not appreciate how diverse the behavior, ecology, and life-history strategies of pinnipeds truly were, or how far the state of human knowledge about pinnipeds has advanced, until I read this book. It is informative and enjoyable for the non-specialist (which I would extend to include biologists who do not work on pinnipeds). It is conceptually synthetic in certain key areas, and the bibliography provides access to many important and recent primary sources, making it of value to the specialist as well. Considering the price, this book is a value worth having on the biologist's bookshelf, as well as in any institutional library.—Thomas J. O'Shea, Gainesville Field Station, National Ecology Research Center, U.S. Fish and Wildlife Service, 412 N.E. 16th Ave., Gainesville, FL 32601.

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BOOK REVIEW

Gentry, Alwyn H. Editor. 1991. *Four Neotropical Forests.* Yale University Press, 92A Yale Station, New Haven, CT 06520. xv + 627 pp.Available from the publisher $57.50 (cloth).

This is the first volume devoted to characterizing the biological characteristics of more than a single Neotropical forest. The concept for an integrated comparison of data and syntheses from more than one site was initiated by Dr. Gentry, a well-travelled tropical botanist, and first became a symposium at the 1987 meeting of the Association for Tropical Biology.

The present volume contains papers presented at the symposium as well as several others in order to gain a complete overview. The four Neotropical forests included are all well-studied and 3 (La Selva, Costa Rica; Barro Colorado, Panama; and Manu National Park, Peru) have field stations that have been the sites of extensive studies All four are lowland forests, with 2 in Central America and 2 in the Amazon Basin of South America.

For each site papers are presented that integrate and compare data on the floristics, avifauna, mammalian fauna, and herpetofauna. The data is a bit never, e.g. there is complete data on bats only for La Selva and the floristics for the Manaus site is actually from a nearby locality.

For trees, the geographic affinities, relative richness and occurrence of families, as well as tree richness in tree plots (up to 283 tree species per hectare greater than 10 cm diameter at breast height in upper Amazonia!), are presented in several chapters.

For birds, there is a separate chapter on the faunistics and richness measure for each site, as well as a multi-authored chapter that compares statistics for the 4 sites and includes a single annotated checklist for all sites. The richest bird community occurs at Manu, Peru, which also has by far the largest number of genera. In contrast, the number of forest bird families is very similar for all tropical forests considered.

For mammals, the comparisons are not uniform since only the La Selva bat community was well sampled. Chiroptera comprise 60% of the mammals at La Selva, and the same preponderance is expected for the other sites as well.

Finally, forest dynamics are described for three of the forests, but only recruitment and mortality are discussed for the Manaus forest. In an overview, Hartshorn emphasizes the recent study of gap formation, and turnover rates that indicates most heterogeneous neotropical forests turnover every 60 to 140 years. This is in contrast to the 500- year successional sequence for the Manu floodplain forest.

The book does not give a complete overview of all areas of tropical forest biota and ecology, but should be of interest to all biologists who study tropical forests or organisms that occur in them. Those with an interest in tropical birds that breed in temperate forests during our relatively brief warm season may wasn't to read about resident tropical avifaunas within which these migrant spend most of the year.—Paul A. Opler, U.S. Fish and Wildlife Service, Office of Information Transfer, 1025 Pennock Place, Suite 212, Fort Collins, CO 80524

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